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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/825,371	04/16/2004	Norbert Erhard	028972.53936US	8087
23911	7590 03/28/2005	EXAMINER		
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP			KIM, CHRISTOPHER S	
	P.O. BOX 14300			PAPER NUMBER
WASHINGTON, DC 20044-4300			3752	

DATE MAILED: 03/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/825,371	ERHARD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Christopher S. Kim	3752			
The MAILING DATE of this communication appe Period for Reply	· · · · · · · · · · · · · · · · · · ·	. –			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 14 Ja	nuary 2005.	·			
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3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
· <u> </u>					
 4) Claim(s) 10-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>10-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	:				
10) The drawing(s) filed on <u>16 April 2004</u> is/are: a)		by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	4) 🗀	(DTO 442)			
) U Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ite			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) ☐ Notice of Informal Pa 6) ☐ Other:	atent Application (PTO-152)			
Paper No(s)/Mail Date	o) 🗀 Other:				

DETAILED ACTION

Response to Amendment

- 1. The response filed January 14, 2005 is acknowledged.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "enters the first chamber" recited in claims 10 and 14 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

4. Claims 10-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shea (4,166,084) in view of Swank (2,543,590).

Shea discloses a spray element comprising: a spray nozzle 20; a control piston 5; a first chamber (chamber having spring 9); a second chamber (chamber having piston 5 and rod 6; a cylindrical section (section which contains and seats stopper 7). Shea discloses the limitations of the claimed invention with the exception of the sealing ring. Swank teaches a sealing ring on stopper 17 and 18. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have provided a sealing ring on the stopper of Shea as taught by Swank to improve sealing.

Response to Arguments

5. Applicant's arguments filed January 14, 2005 have been fully considered but they are not persuasive.

Applicant argues that in figure 2 the relative position of the pistons is chosen such that the sealing ring in a starting position of the valve lies sealingly in the cylindrical section and upon the application of control air to the second piston, enters

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the first chamber. Applicant asserts that figure 2 show the distance being chosen such that the sealing ring enters the first chamber upon the application of control air to the second piston, but how can such an assertion be supported and shown if the sealing ring is not shown in the first chamber? Shea, on the other hand, shows the valve in the open position with the first end portion 7 in the first chamber (chamber having spring 9).

In response to applicant's argument that Shea discloses a bubble maker and not a spray element, it has been held that an recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. *Ex parte Masham*, 2 USPQ2d 1647. Additionally, Shea does disclose a spray element. The device of Shea sprays bubbles.

Applicant argues that the stopper seat of Shea is frustum shape and not cylindrical shape. The claimed invention does not preclude the frustum shape. Shea shows a cylindrical shape section below the frustum shape portion.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Christopher S. Kim Primary Examiner

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